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| | | | | | Application Number | | Complete ii Kilol | | | |
| | INFO | MATION DISCL | OSLIBE | | Filing Date | | Novemi | ber 24 | . 2003 | |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | | | | First Named Inventor | | | | ry A. et al. | | |
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| - Circuit | | | | I S DA | ENT DOCUMENTS | | | | | |
| Examiner | Cite No. 1 | U.S. Patent Do | | | e of Patentee or Applica | nt I | Date of Publication | $\overline{}$ | Pages, Columns, Lines, Where R | elevant |
| Initials* | Oile No. | Number | Kind Code ² | 1 ''''' | of Cited Document | `` | of Cited Document | | Passages or Relevant Figures A | |
| | 1 | | (if known) | | | | MM-DD-YYYY | | | |
| RD | | 5,546,321 | T | Chan | g et al. | | 08/13/1996 | | | |
| RD | | 5,682,298 | | Rayn | | | 10/28/1997 | | | |
| RD | | 5,912,809 | | | erwald et al. | $\neg \uparrow$ | 06/15/1999 | 1 | | |
| RD | | 6,046,653 | | Yama | | | 04/04/2000 | 十 | , | |
| RD RD | | 6,356,162 | B1 | | andre et al. | - 1 | 03/12/2002 | \dashv | | |
| RD | <u> </u> | 6,440,318 | BI | Lee e | | \dashv | 08/27/2002 | + | | |
| | | 0,440,316 | + 101 | LECC | t ai. | -+ | OGIZITZOOZ | | | |
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| r | | Country Code ³ Num | ber 4 Kind Code | 9 2 (if | MM-DD-YYYY | Appli | icant of Cited Docum | ent | Where Relevant Passages or | |
| Initials* | | known) | | | | | | | Relevant Figures Appear | |
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| Examiner | Cite No. | Include name of | the author (in C | APITAL I | ETTERS), title of the arti | de (wh | en appropriate), title (| of the | item (book, magazine, journal, | T2 |
| Initials* | | serial, sym | posium, catalog, | etc.), dat | e, page(s), volume-issue | numbe | r(s), publisher, city a | nd/or | country where published. | - |
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/Robert Deberadinis/

Examiner

Date

10/11/2006

¹ Unique citation designation number. ² See Kinds of U.S. Patent Documents, ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 If possible. ⁶ Applicant is to place a check mark here if English Language Translation is attached.

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INFORMATION DISCOSURES STATEMENT BY APPLICANT

(use as many sheets as necessary)

| Complete if Known | | | | | |
|------------------------|-------------------|--|--|--|--|
| Application Number | 10/721,030 | | | | |
| Filing Date | November 24, 2003 | | | | |
| First Named Inventor | Larry A. Sparling | | | | |
| Group Art Unit | | | | | |
| Examiner Name | Dorothy Riley | | | | |
| Attorney Docket Number | IS01246AP | | | | |

of Sheet **U. S. PATENT DOCUMENTS** Pages, Columns, Lines, Where Relevant **Publication Date** Name of Patentee or Applicant **Document Number** Examiner Cite No. 1 of Cited Document Passages or Relevant Figures Appear Initials* Number -Kind Code² (if known) MM-DD-YYYY US - 6462976 10-08-2002 University of Arkansas RD 06-24-1997 Allen-Bradley Company US - 5641944 US-US-US-US -US-US-US-US-US-US-US-US-US-US-US-US-ŪS-US-US-US-US-US-

| FOREIGN PATENT DOCUMENTS | | | | | | |
|--------------------------|------------|---|--------------------------------|--|---|-----|
| Examiner Initials* | Cite No. 1 | Foreign Patent Document Country Code ³ Number ⁴ Kind Code ² (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T 6 |
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| Examiner Signature | /Robert Deberadinis/ | Date Considered | 10/11/2006 | | | | |
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next communication to applicant.

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¹ Unique citation designation number. ² See Kinds of U.S. Patent Documents. ¹ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document, ⁸ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English Language Translation is attached.